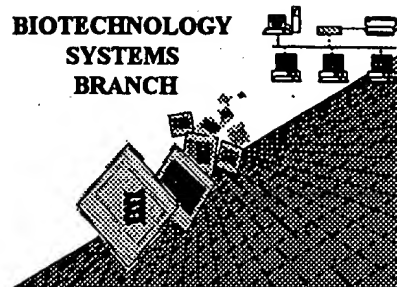


Zaghmouni

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 08/989, 881
Art Unit / Team No. : 1649
Date Processed by STIC: 2/12/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

BEST AVAILABLE COPY

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 08/989,881

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 **Wrapped Nucleics** The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 **Wrapped Aminos** The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 **Incorrect Line Length** The rules require that a line not exceed 72 characters in length. This includes spaces.
All text must be visible on page.
- 4 **Misaligned Amino Acid Numbering** The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 **Non-ASCII** This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 **Variable Length** Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.
- 7 **Wrong Designation** Sequence(s) contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)
- 8 **Skipped Sequences (OLD RULES)** Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(1) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(x1) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 **Skipped Sequences (NEW RULES)** Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 **Use of N's or Xaa's (NEW RULES)** Use of N's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
- 11 **Use of <213>Organism (NEW RULES)** Sequence(s) are missing this mandatory field or its response.
- 12 **Use of <220>Feature (NEW RULES)** Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
(Sec. 1.823 of new Sequence Rules)
- 13 **Wrong Format** File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.
AKS-Biotechnology Systems Branch- 7/10/98

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/989,881DATE: 02/12/1999
TIME: 16:51:08

Input Set: H989881.RAW

<p>This Raw Listing contains the General Information Section and up to first 5 pages.</p>

1 <110> APPLICANT: Sheen, Jen
2 <120> TITLE OF INVENTION: STRESS-PROTECTED TRANSGENIC PLANTS
3 <130> FILE REFERENCE: 08472/716002
4 <140> CURRENT APPLICATION NUMBER: US/08/989,881
5 <141> CURRENT FILING DATE: 1997-12-12
6 <150> EARLIER APPLICATION NUMBER: 60/032,966
7 <151> EARLIER FILING DATE: 1996-12-13
8 <160> NUMBER OF SEQ ID NOS: 18
9 <170> SOFTWARE: FastSEQ for Windows Version 3.0
10 <210> SEQ ID NO 1
11 <211> LENGTH: 1020
12 <212> TYPE: DNA
13 <213> ORGANISM: Arabidopsis thaliana
14 <220> FEATURE:
15 <400> SEQUENCE: 1

W--> 16 gttgtaaaac gacggcagc gaattgtaac acgactgct atagggcgaa attggagctc 60
17 caccgcggtg gcggccgctc tagaactagt ggatcc atg gct aat caa act cag 114
18 atc agc gac aag tac atc tta gga cga gaa ctc ggt cgc ggc gaa ttc 162
19 gga atc acg tat ctt tgt aca gat aga gag act cgt gaa gct tta gct 210
20 tgc aaa tca atc tcc aag aga aag ctc cga acc gcc gtc gat gtg gaa 258
21 gac gtc cgt cgt gaa gtc acg atc atg tca act tta ccg gaa cac cca 306
22 aac gtt gtg aaa ctt aaa gcg act tat gag gat aac gag acc gtg cat 354
23 ctt gtg atg gag ctt tgt gaa gga ggt gag ctt ttt ggt cgg att gtt 402
24 gca aga gga cat tat aca gag cgt gcg gcg gct acc gtc gcg aga acg 450
25 atc gcg gaa gtt gtg agg atg tgt cat gtc aat ggt gtt atg cat aga 498
26 gat ttg aag cct gag aat ttc ttg ttt gct aac aag aag gag aat tct 546
27 gca ctt aag gct att gat ttt ggt tta tct gtt ctc ttt aaa cct gga 594
28 gag agg ttt aca gag att gtt gga agt cct tat tat atg gct cca gaa 642
29 gtg ttg aag aga aat tat gga cca gag gtt gat gtg tgg agt gct gga 690
30 gtt atc ctc tac atc ttg ctt tgt ggt gtt cct ccg ttt tgg gca gag 738
31 act gaa caa ggt gtg gct ctt gcc atc ttg agg gga gtt ctt gat ttt 786
32 aag aga gat cct tgg tgg cag ata tca gag agc gca aag agc ctt gtg 834
33 aag cag atg ttg gaa cct gat tca act aag cgt ttg act gct cag caa 882
34 gtt ctt gat cac cct tgg ata cag aat gca aag aaa aggatcaagc 928
W--> 35 ttatcgatac cgtcgacctc gagggggggc ccggtaccag ctttngttcc ctttagtgag 988
36 ggtaatttc gagcttggtc taatcatgtc at 1020

37 <210> SEQ ID NO 2
38 <211> LENGTH: 274
39 <212> TYPE: PRT
40 <213> ORGANISM: Arabidopsis thaliana
41 <400> SEQUENCE: 2
42 Met Ala Asn Gln Thr Gln Ile Ser Asp Lys Tyr Ile Leu Gly Arg Glu
43 1 5 10 15
44 Leu Gly Arg Gly Glu Phe Gly Ile Thr Tyr Leu Cys Thr Asp Arg Glu

Does Not Comply
Corrected Diskette Needed

See item 10 in Eva summary sheet

item 10

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/989,881

DATE: 02/12/1999
TIME: 16:51:08

Input Set: H989881.RAW

45		20		25		30	
46	Thr	Arg	Glu	Ala	Leu	Ala	Cys
47		35		40		45	
48	Thr	Ala	Val	Asp	Val	Glu	Asp
49		50		55		60	
50	Thr	Leu	Pro	Glu	His	Pro	Asn
51	65			70		75	
52	Asp	Asn	Glu	Thr	Val	His	Leu
53		85		90		95	
54	Leu	Phe	Gly	Arg	Ile	Val	Ala
55		100		105		110	
56	Ala	Thr	Val	Ala	Arg	Thr	Ile
57		115		120		125	
58	Asn	Gly	Val	Met	His	Arg	Asp
59		130		135		140	
60	Asn	Lys	Lys	Glu	Asn	Ser	Ala
61	145			150		155	
62	Val	Leu	Phe	Lys	Pro	Gly	Glu
63		165		170		175	
64	Tyr	Tyr	Met	Ala	Pro	Glu	Val
65		180		185		190	
66	Asp	Val	Trp	Ser	Ala	Gly	Val
67		195		200		205	
68	Pro	Pro	Phe	Trp	Ala	Glu	Thr
69		210		215		220	
70	Arg	Gly	Val	Leu	Asp	Phe	Lys
71	225			230		235	
72	Ser	Ala	Lys	Ser	Leu	Val	Lys
73		245		250		255	
74	Arg	Leu	Thr	Ala	Gln	Gln	Val
75		260		265		270	

76 Lys Lys

77 <210> SEQ ID NO 3

78 <211> LENGTH: 29

79 <212> TYPE: DNA

80 <213> ORGANISM: Arabidopsis thaliana

81 <400> SEQUENCE: 3

82 gaagatctat gggtaatact tgtgttgga

29

83 <210> SEQ ID NO 4

84 <211> LENGTH: 28

85 <212> TYPE: DNA

86 <213> ORGANISM: Arabidopsis thaliana

87 <400> SEQUENCE: 4

88 gtcaaggcct gtcgacttga acccatgg

28

89 <210> SEQ ID NO 5

90 <211> LENGTH: 33

91 <212> TYPE: DNA

92 <213> ORGANISM: Arabidopsis thaliana

93 <400> SEQUENCE: 5

94 gcggatccat ggctaataca actcagatca gcg

33

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/989,881DATE: 02/12/1999
TIME: 16:51:08

Input Set: H989881.RAW

95	<210> SEQ ID NO 6	
96	<211> LENGTH: 29	
97	<212> TYPE: DNA	
98	<213> ORGANISM: Arabidopsis thaliana	
99	<400> SEQUENCE: 6	
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101	<210> SEQ ID NO 7	
102	<211> LENGTH: 30	
103	<212> TYPE: DNA	
104	<213> ORGANISM: Arabidopsis thaliana	
105	<400> SEQUENCE: 7	
106	gcggatccat ggagacgaag ccaaacccta	30
107	<210> SEQ ID NO 8	
108	<211> LENGTH: 30	
109	<212> TYPE: DNA	
110	<213> ORGANISM: Arabidopsis thaliana	
111	<400> SEQUENCE: 8	
112	gtcaaggcct tgcttgttca tcgacaatcc	30
113	<210> SEQ ID NO 9	
114	<211> LENGTH: 30	
115	<212> TYPE: DNA	
116	<213> ORGANISM: Arabidopsis thaliana	
117	<400> SEQUENCE: 9	
118	catgccatgg ctccggcgac taattcaccg	30
119	<210> SEQ ID NO 10	
120	<211> LENGTH: 32	
121	<212> TYPE: DNA	
122	<213> ORGANISM: Arabidopsis thaliana	
123	<400> SEQUENCE: 10	
124	gtcaaggcct attcttcaag aaccatttat cg	32
125	<210> SEQ ID NO 11	
126	<211> LENGTH: 30	
127	<212> TYPE: DNA	
128	<213> ORGANISM: Arabidopsis thaliana	
129	<400> SEQUENCE: 11	
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131	<210> SEQ ID NO 12	
132	<211> LENGTH: 31	
133	<212> TYPE: DNA	
134	<213> ORGANISM: Arabidopsis thaliana	
135	<400> SEQUENCE: 12	
136	gtcaaggcct attcttcaag aaccaactat g	31
137	<210> SEQ ID NO 13	
138	<211> LENGTH: 33	
139	<212> TYPE: DNA	
140	<213> ORGANISM: Arabidopsis thaliana	
141	<400> SEQUENCE: 13	
142	gcggatccat ggctaagtca gagctggtga aag	33
143	<210> SEQ ID NO 14	
144	<211> LENGTH: 31	

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/989,881DATE: 02/12/1999
TIME: 16:51:08

Input Set: H989881.RAW

145	<212> TYPE: DNA	
146	<213> ORGANISM: Arabidopsis thaliana	
147	<400> SEQUENCE: 14	
148	gtcaaggcct attctttagg aaccatgaat g	31
149	<210> SEQ ID NO 15	
150	<211> LENGTH: 33	
151	<212> TYPE: DNA	
152	<213> ORGANISM: Arabidopsis thaliana	
153	<400> SEQUENCE: 15	
154	gcggatccat ggctaagtat gacgttgtca agg	33
155	<210> SEQ ID NO 16	
156	<211> LENGTH: 28	
157	<212> TYPE: DNA	
158	<213> ORGANISM: Arabidopsis thaliana	
159	<400> SEQUENCE: 16	
160	gtcaaggcct attcttcaag taccacgg	28
161	<210> SEQ ID NO 17	
162	<211> LENGTH: 20	
163	<212> TYPE: DNA	
164	<213> ORGANISM: Hordeum vulgare	
165	<400> SEQUENCE: 17	
166	tccaccgaga tgccgacgca	20
167	<210> SEQ ID NO 18	
168	<211> LENGTH: 26	
169	<212> TYPE: DNA	
170	<213> ORGANISM: Hordeum vulgare	
171	<400> SEQUENCE: 18	
172	gttggaggcc atggtcgtct cacgat	26

Input Set: H989881.RAW

Line	Error/Warning	Original Text
16	W "N" or "Xaa" used: Feature required	gttgtaaaac gacggncagt gaattgtaat acgactcn
35	W "N" or "Xaa" used: Feature required	ttatcgatac cgtcgacctc gagggggggc ccggtacc